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FIG. 1

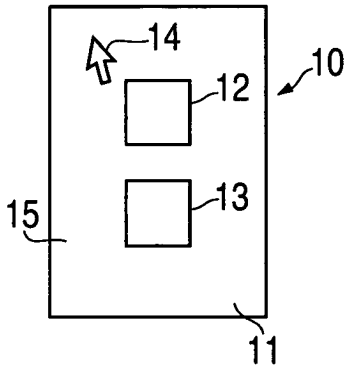


FIG. 2a

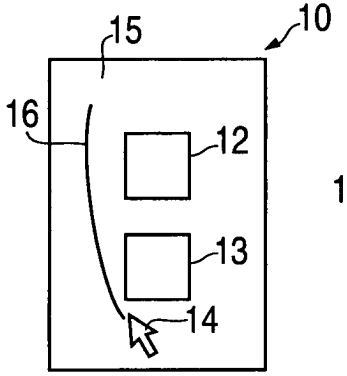


FIG. 2b

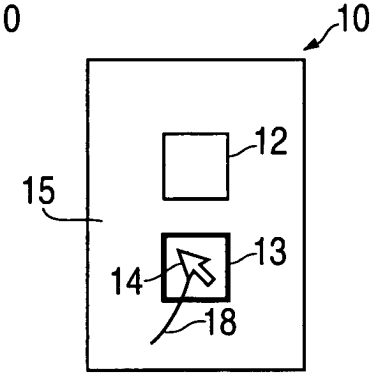


FIG. 2c

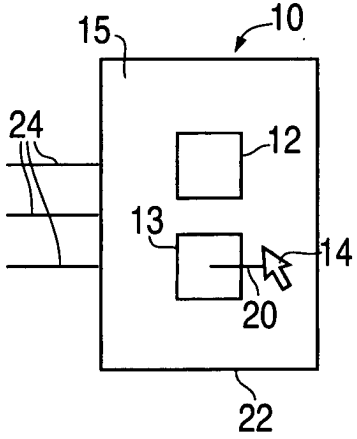
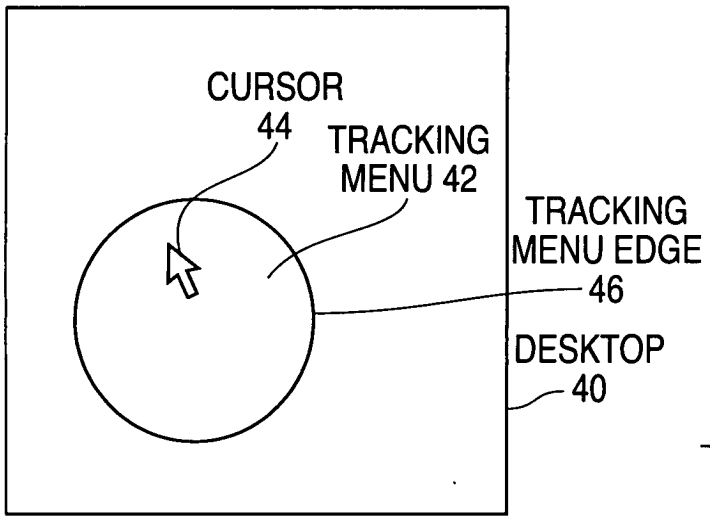
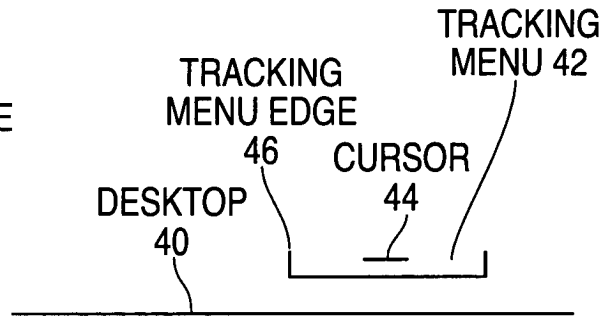


FIG. 3a



TOP VIEW

FIG. 3b



SIDE VIEW

FIG. 4

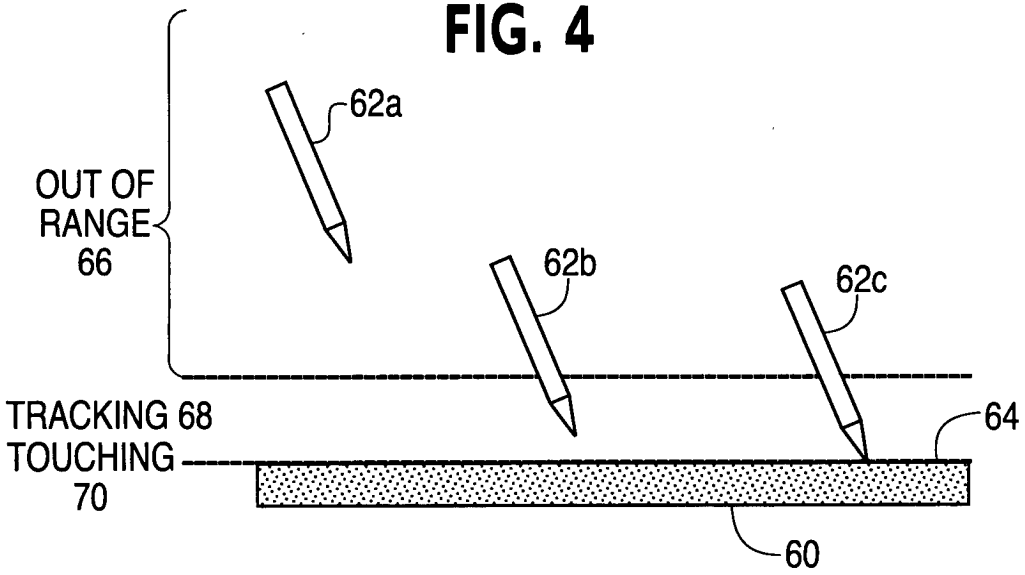


FIG. 5

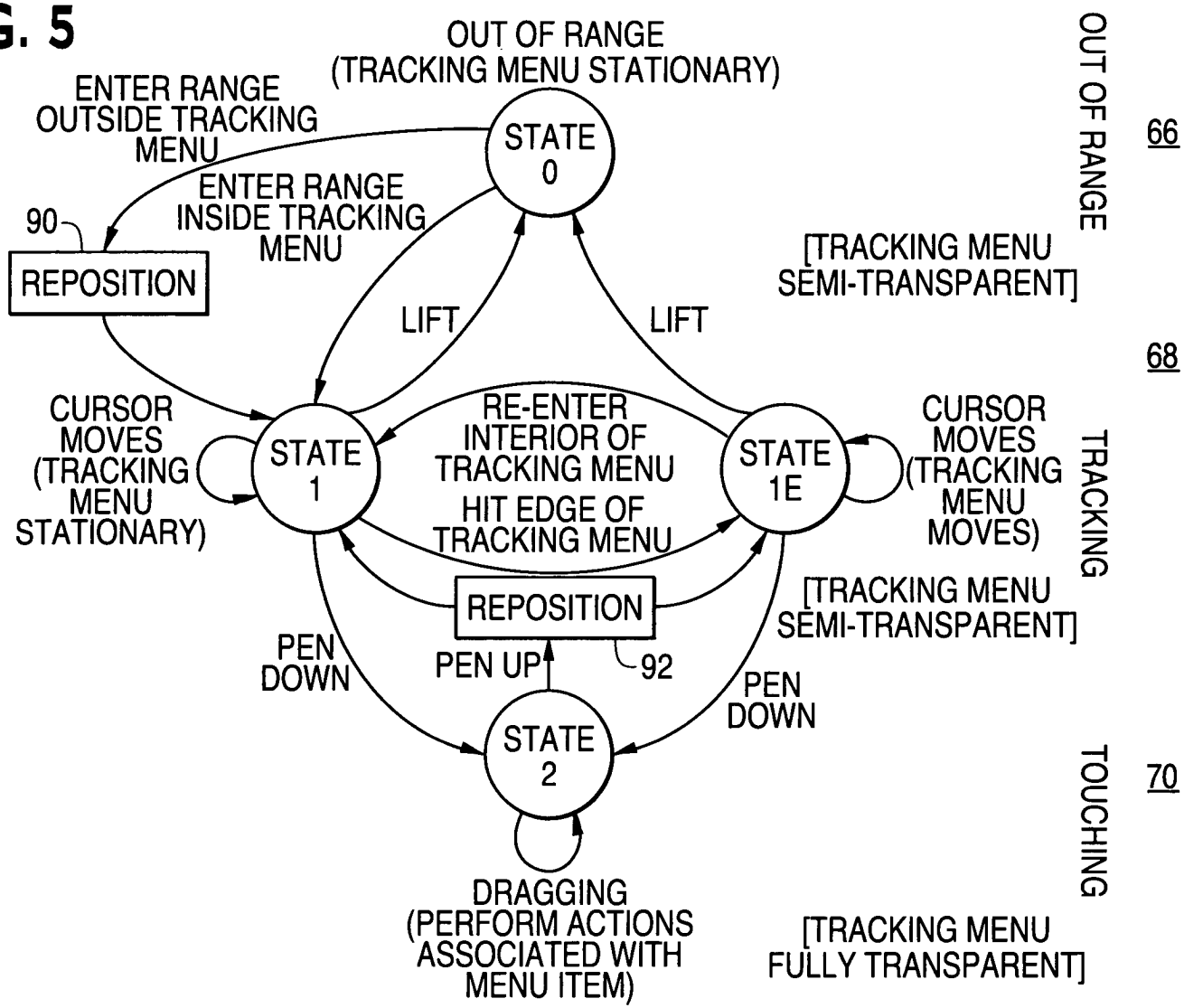

OUT OF RANGE
(TRACKING MENU STATIONARY)
ENTER RANGE
OUTSIDE TRACKING
MENU
STATE
0
ENTER RANGE
INSIDE TRACKING
MENU
90
REPOSITION
LIFT
LIFT
[TRACKING MENU
SEMI-TRANSPARENT]
OUT OF RANGE
66
68
CURSOR
MOVES
(TRACKING
MENU
STATIONARY)
STATE
1
RE-ENTER
INTERIOR OF
TRACKING MENU
HIT EDGE OF
TRACKING MENU
STATE
1E
CURSOR
MOVES
(TRACKING
MENU
MOVES)
TRACKING
REPOSITION
[TRACKING MENU
SEMI-TRANSPARENT]
PEN
DOWN
PEN UP
92
PEN
DOWN
STATE
2
70
TOUCHING
DRAGGING
(PERFORM ACTIONS
ASSOCIATED WITH
MENU ITEM)
[TRACKING MENU
FULLY TRANSPARENT]

FIG. 6(a)

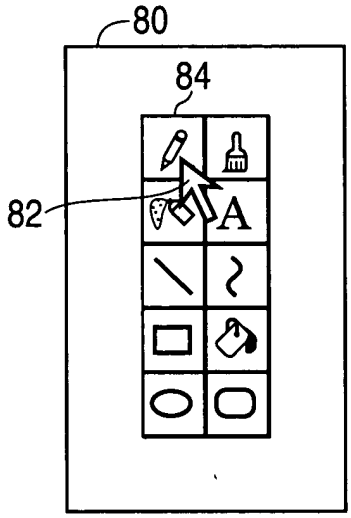


FIG. 6(b)

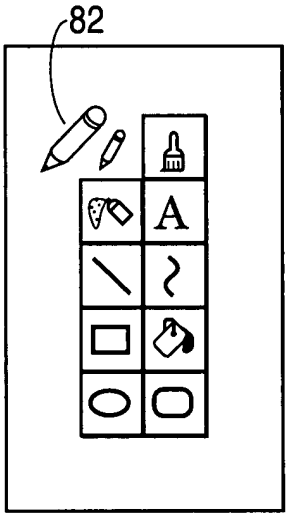


FIG. 6(c)

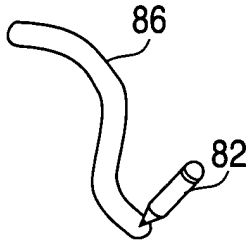


FIG. 6(d)

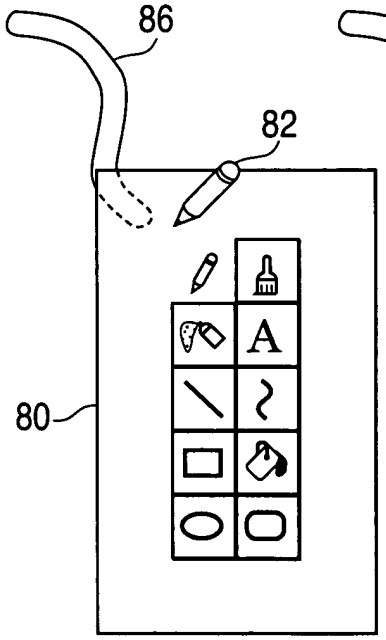


FIG. 6(e)

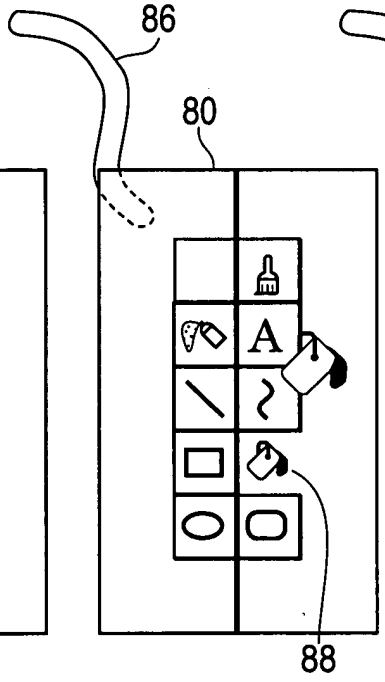


FIG. 6(f)

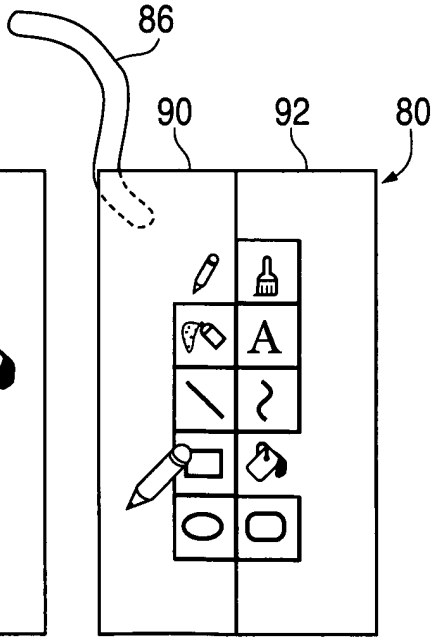


FIG. 7

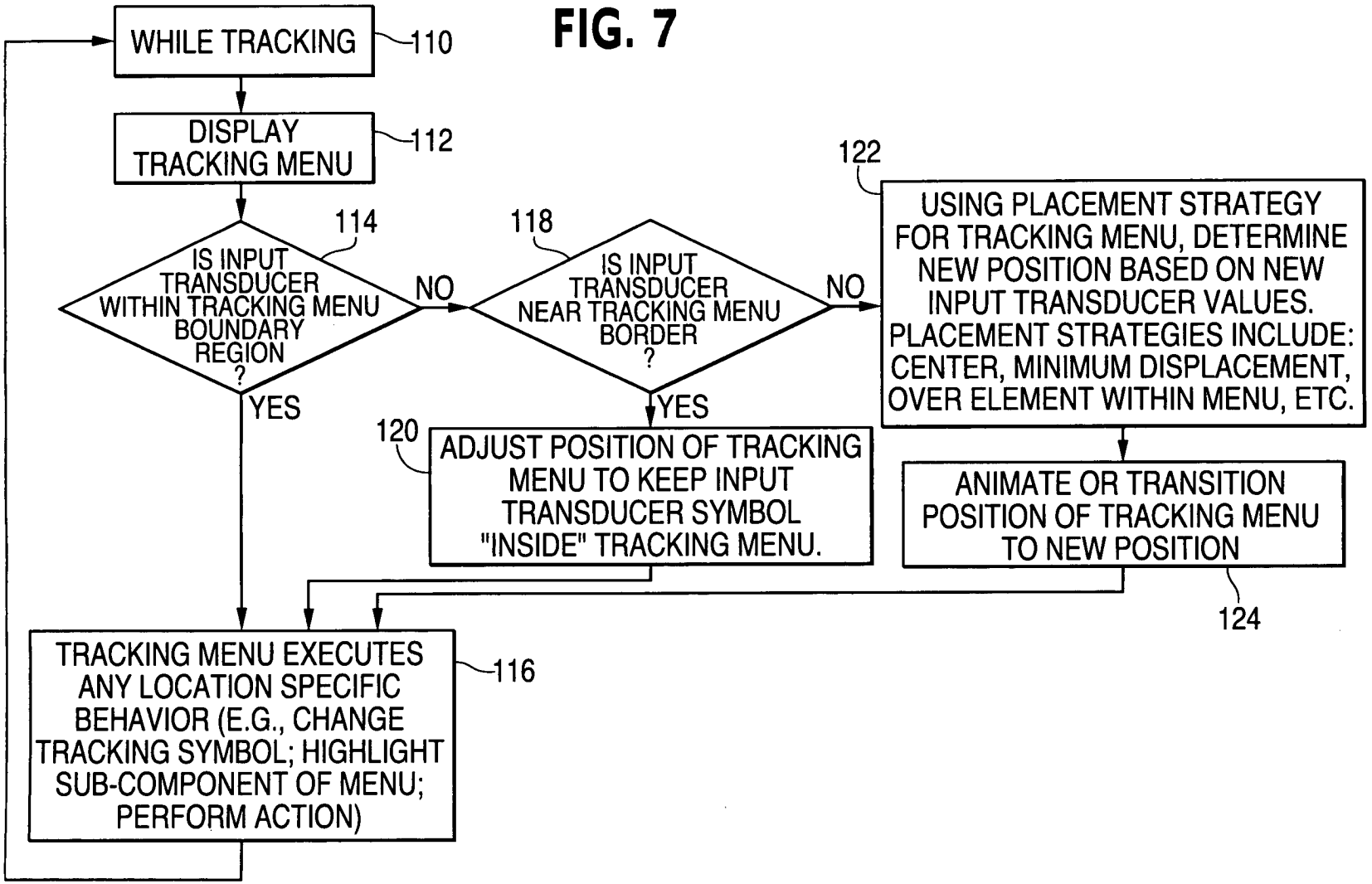

WHILE TRACKING
110
DISPLAY TRACKING MENU
112
114
IS INPUT TRANSDUCER WITHIN TRACKING MENU BOUNDARY REGION ?
NO
YES
118
IS INPUT TRANSDUCER NEAR TRACKING MENU BORDER ?
NO
YES
120
ADJUST POSITION OF TRACKING MENU TO KEEP INPUT TRANSDUCER SYMBOL "INSIDE" TRACKING MENU.
122
USING PLACEMENT STRATEGY FOR TRACKING MENU, DETERMINE NEW POSITION BASED ON NEW INPUT TRANSDUCER VALUES. PLACEMENT STRATEGIES INCLUDE: CENTER, MINIMUM DISPLACEMENT, OVER ELEMENT WITHIN MENU, ETC.
ANIMATE OR TRANSITION POSITION OF TRACKING MENU TO NEW POSITION
124
TRACKING MENU EXECUTES ANY LOCATION SPECIFIC BEHAVIOR (E.G., CHANGE TRACKING SYMBOL; HIGHLIGHT SUB-COMPONENT OF MENU; PERFORM ACTION)
116

FIG. 8a

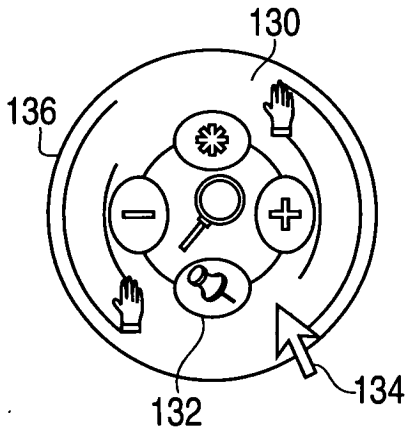


FIG. 8b

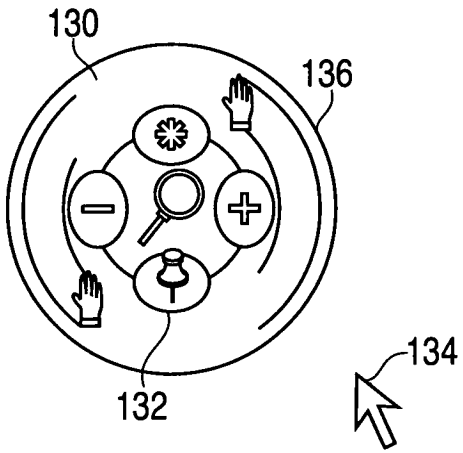
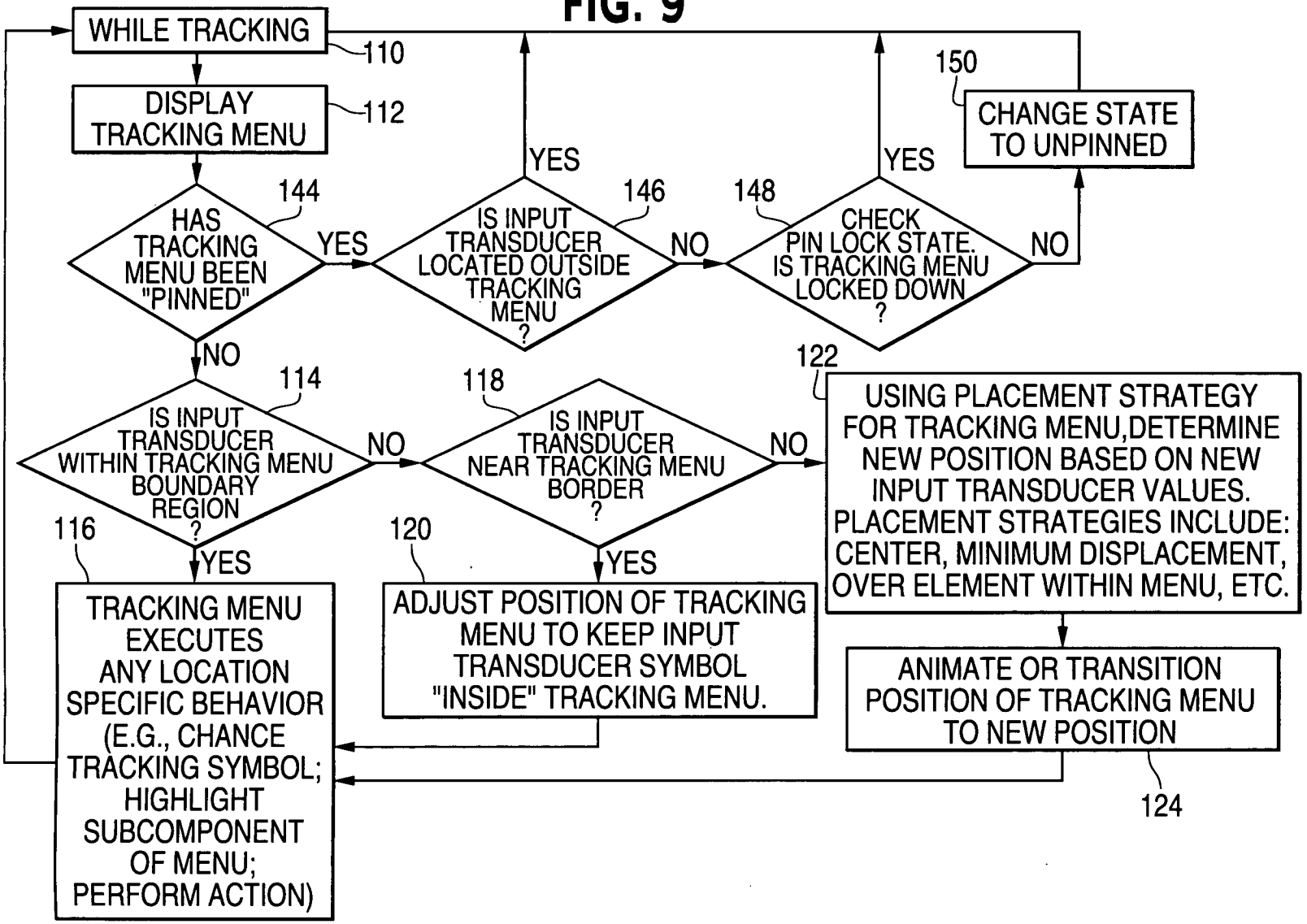


FIG. 9


WHILE TRACKING
110
DISPLAY TRACKING MENU
112
HAS TRACKING MENU BEEN "PINNED"
144
YES
IS INPUT TRANSDUCER LOCATED OUTSIDE TRACKING MENU ?
146
YES
NO
CHECK PIN LOCK STATE. IS TRACKING MENU LOCKED DOWN ?
148
YES
NO
150
CHANGE STATE TO UNPINNED
NO
IS INPUT TRANSDUCER WITHIN TRACKING MENU BOUNDARY REGION ?
114
NO
IS INPUT TRANSDUCER NEAR TRACKING MENU BORDER ?
118
NO
122
USING PLACEMENT STRATEGY FOR TRACKING MENU,DETERMINE NEW POSITION BASED ON NEW INPUT TRANSDUCER VALUES. PLACEMENT STRATEGIES INCLUDE: CENTER, MINIMUM DISPLACEMENT, OVER ELEMENT WITHIN MENU, ETC.
116
YES
TRACKING MENU EXECUTES ANY LOCATION SPECIFIC BEHAVIOR (E.G., CHANCE TRACKING SYMBOL; HIGHLIGHT SUBCOMPONENT OF MENU; PERFORM ACTION)
120
YES
ADJUST POSITION OF TRACKING MENU TO KEEP INPUT TRANSDUCER SYMBOL "INSIDE" TRACKING MENU.
ANIMATE OR TRANSITION POSITION OF TRACKING MENU TO NEW POSITION
124

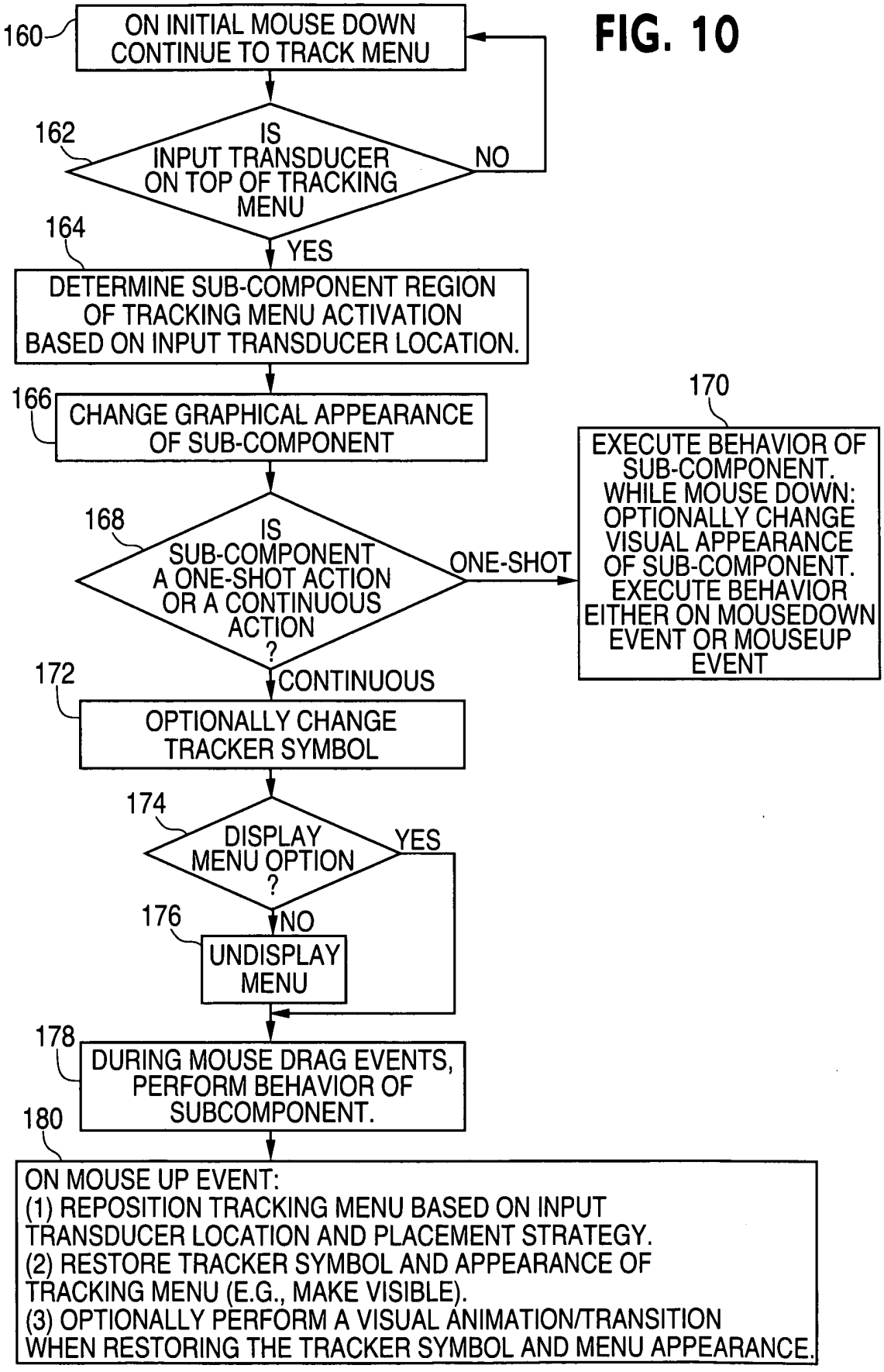

160
ON INITIAL MOUSE DOWN CONTINUE TO TRACK MENU
162
IS INPUT TRANSDUCER ON TOP OF TRACKING MENU
NO
YES
164
DETERMINE SUB-COMPONENT REGION OF TRACKING MENU ACTIVATION BASED ON INPUT TRANSDUCER LOCATION.
166
CHANGE GRAPHICAL APPEARANCE OF SUB-COMPONENT
168
IS SUB-COMPONENT A ONE-SHOT ACTION OR A CONTINUOUS ACTION ?
ONE-SHOT
170
EXECUTE BEHAVIOR OF SUB-COMPONENT. WHILE MOUSE DOWN: OPTIONALLY CHANGE VISUAL APPEARANCE OF SUB-COMPONENT. EXECUTE BEHAVIOR EITHER ON MOUSEDOWN EVENT OR MOUSEUP EVENT
CONTINUOUS
172
OPTIONALLY CHANGE TRACKER SYMBOL
174
DISPLAY MENU OPTION ?
YES
NO
176
UNDISPLAY MENU
178
DURING MOUSE DRAG EVENTS, PERFORM BEHAVIOR OF SUBCOMPONENT.
180
ON MOUSE UP EVENT:
(1) REPOSITION TRACKING MENU BASED ON INPUT TRANSDUCER LOCATION AND PLACEMENT STRATEGY.
(2) RESTORE TRACKER SYMBOL AND APPEARANCE OF TRACKING MENU (E.G., MAKE VISIBLE).
(3) OPTIONALLY PERFORM A VISUAL ANIMATION/TRANSITION WHEN RESTORING THE TRACKER SYMBOL AND MENU APPEARANCE.

FIG. 10

FIG. 11a

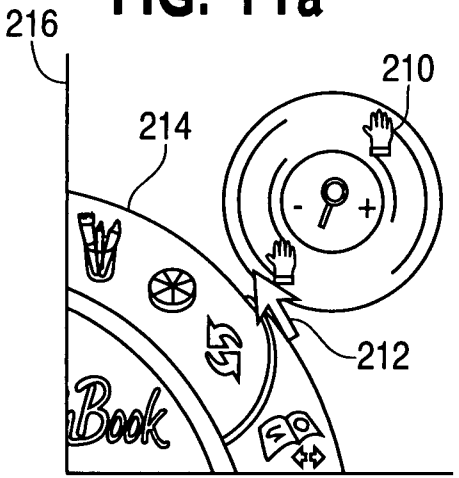


FIG. 11b

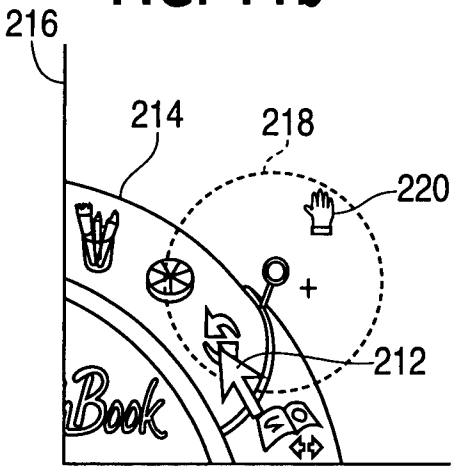


FIG. 11c

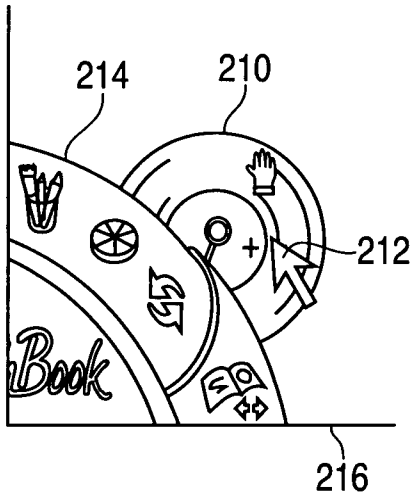


FIG. 12

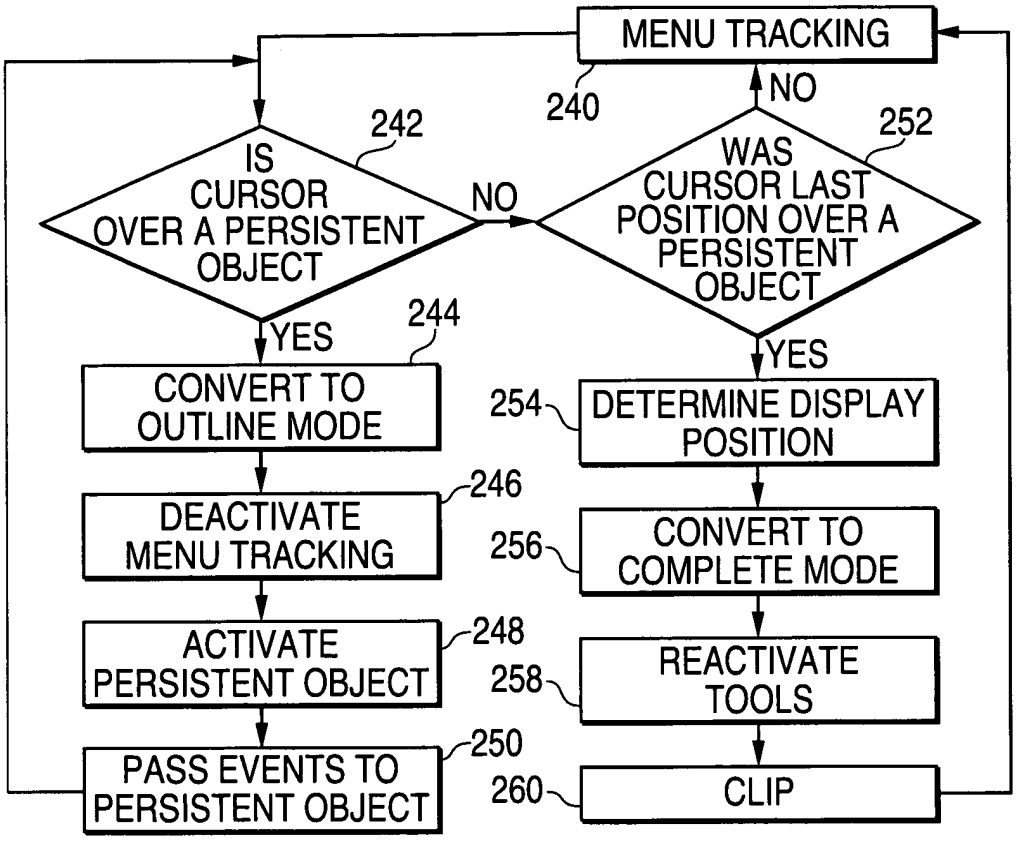

MENU TRACKING
240
NO
242
IS CURSOR OVER A PERSISTENT OBJECT
NO
252
WAS CURSOR LAST POSITION OVER A PERSISTENT OBJECT
YES
244
CONVERT TO OUTLINE MODE
YES
254
DETERMINE DISPLAY POSITION
246
DEACTIVATE MENU TRACKING
256
CONVERT TO COMPLETE MODE
248
ACTIVATE PERSISTENT OBJECT
258
REACTIVATE TOOLS
250
PASS EVENTS TO PERSISTENT OBJECT
260
CLIP

FIG. 13a

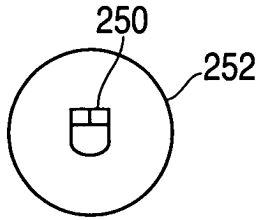


FIG. 13b

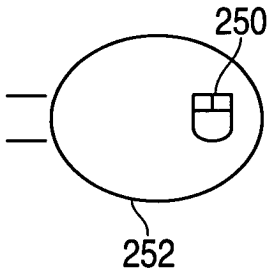


FIG. 13c

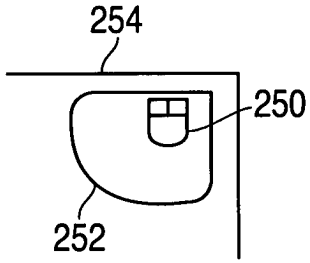


FIG. 14a

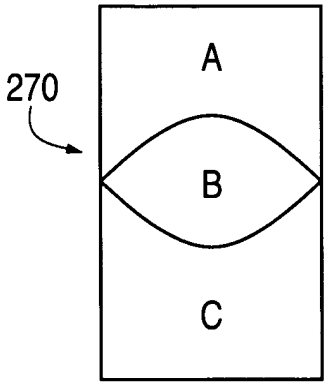


FIG. 14b

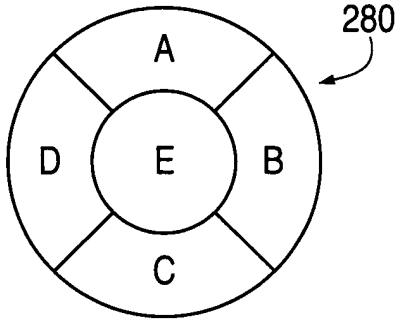


FIG. 15

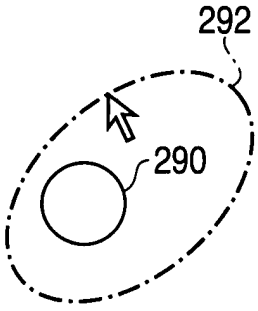


FIG. 18

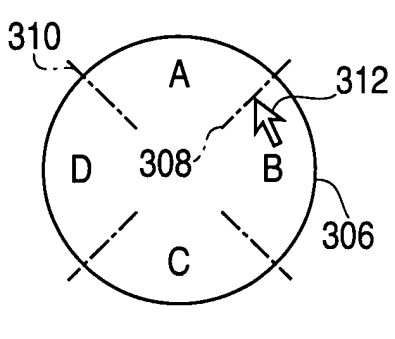


FIG. 17

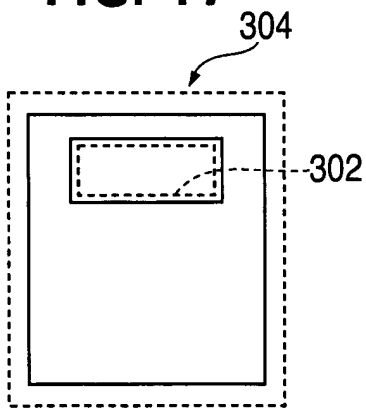


FIG. 16a

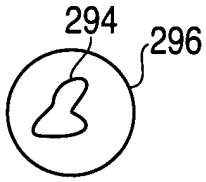


FIG. 16b

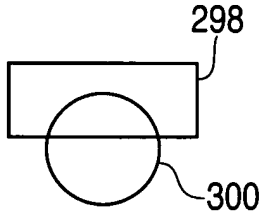


FIG. 22

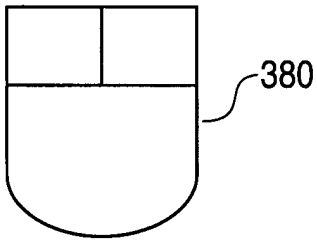


FIG. 23

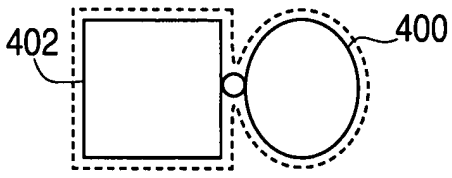


FIG. 19

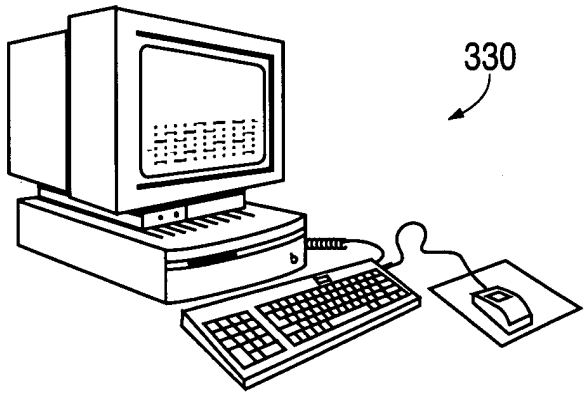


FIG. 20

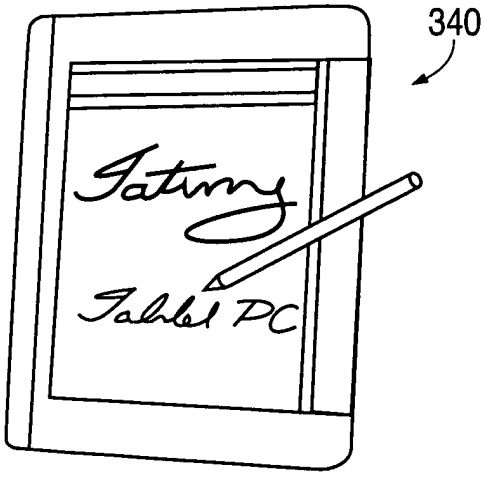


FIG. 21

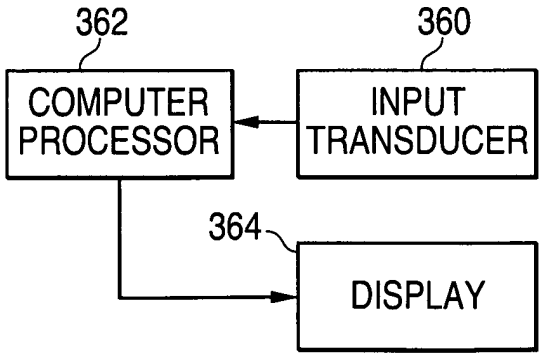


FIG. 24

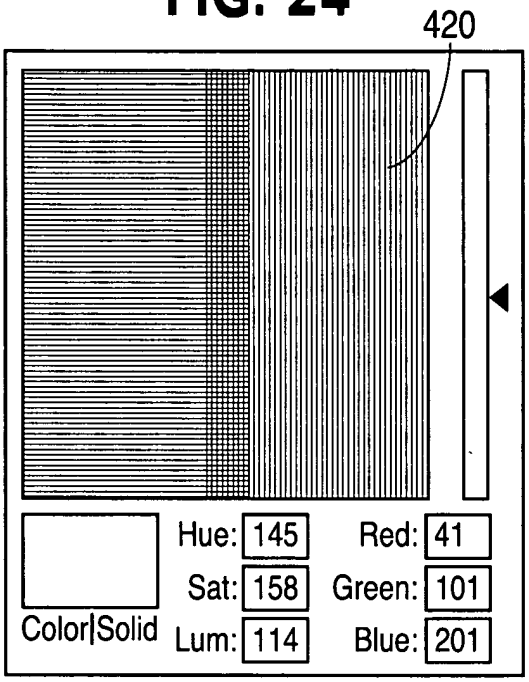

420
Hue: 145
Sat: 158
Lum: 114
Red: 41
Green: 101
Blue: 201
Color|Solid

FIG. 25

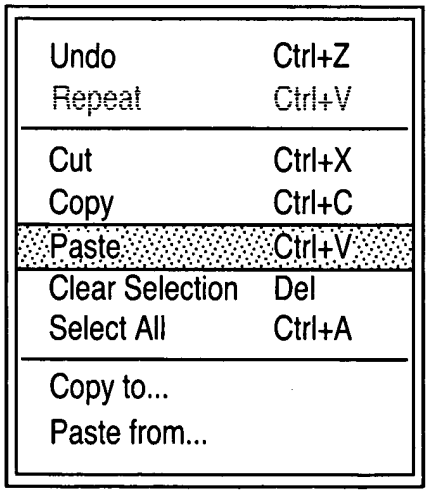

422
Undo Ctrl+Z
Repeat Ctrl+V
Cut Ctrl+X
Copy Ctrl+C
Paste Ctrl+V
Clear Selection Del
Select All Ctrl+A
Copy to...
Paste from...

FIG. 26

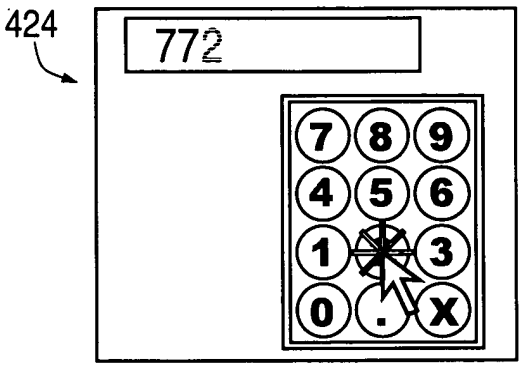


FIG. 27

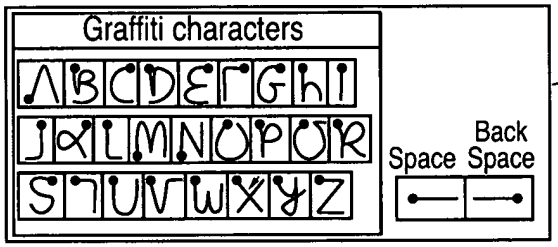


FIG. 28

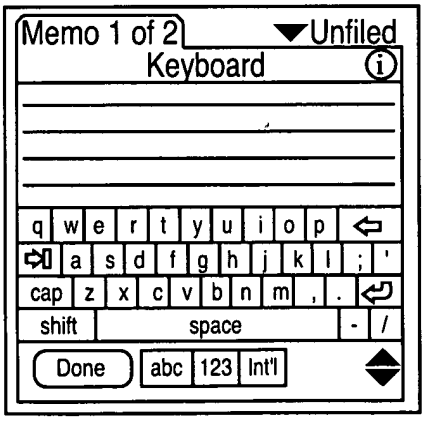


FIG. 29

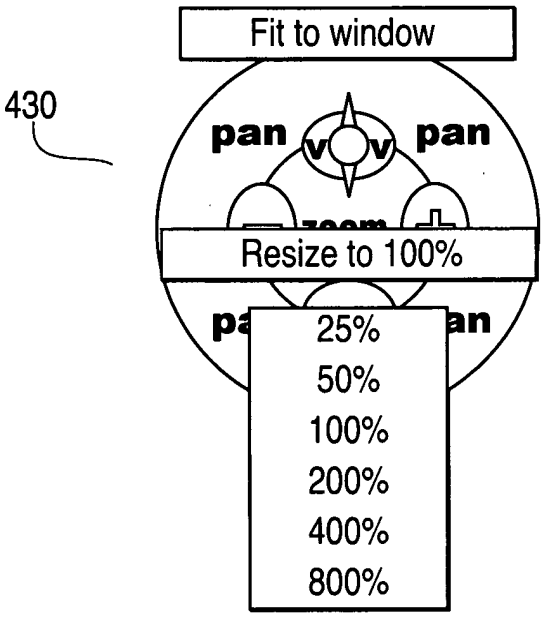
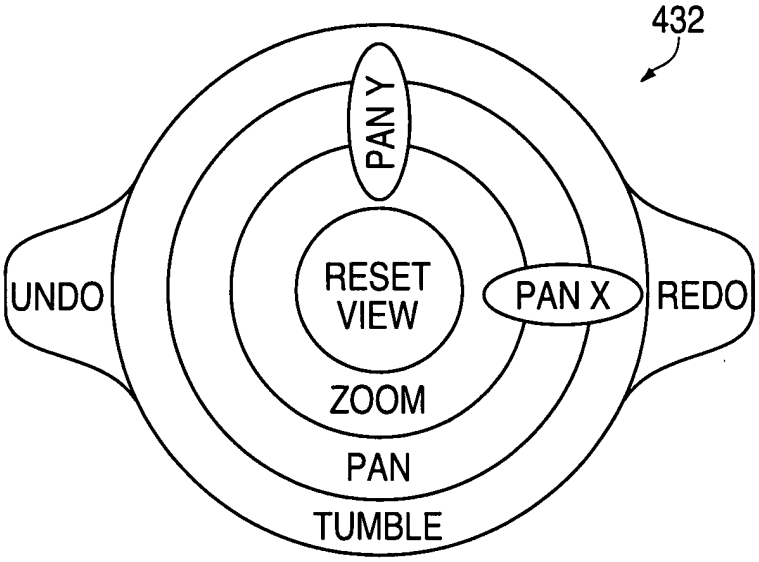



FIG. 30